



BIOCHEMISTRY



University of Findlay

Program Overview

At the University of Findlay, the bachelor of science in biochemistry prepares students for a variety of opportunities, whether it is entering the workforce immediately after graduation or pursuing an advanced degree. Coursework in the biochemistry program aligns with the American Society for Biochemistry and Molecular Biology (ASBMB) certification standards. This alignment signifies that University of Findlay graduates have gained the knowledge and possess the skills deemed important by one of the world's largest molecular life science societies.

It is the philosophy of the biology and chemistry faculty to use a variety of teaching methods to convey information to students and to adopt a mentoring approach with regard to their professional development. As part of their degree requirements, students will work with biology and chemistry faculty in various areas of biochemical research.

Program Highlights

Undergraduate Research - Beginning their first year, students have the opportunity to conduct hands-on lab and field research one-on-one or in small groups with our faculty. Paid summer research opportunities may be available.

Solid Job Outlook - According to the US Bureau of Labor Statistics, employment of biochemists and biophysicists is projected to grow 6% from 2024 to 2034, which is faster than average for all occupations.

Frost Brewer Science Center. - Findlay's Department of Physical Sciences is primarily housed in the Frost Brewer Science Center:

- We have a total of eight laboratories, including analytical, physical, and laser spectroscopy labs.
- We are fully stocked with all necessary equipment and supplies needed to perform undergraduate research.
- The Newhard Planetarium is also housed within our Department.

WHY BIOCHEMISTRY?

Whether you'd like to work as a biochemist in a lab after graduation or pursue medical or graduate school, the Findlay biochemistry program will deliver the experience and services necessary for you to succeed in your life and your career.

ABOUT OUR FACULTY

Our faculty brings the best of both worlds to the classroom—academic rigor paired with real-world know-how. At UF we've built a tradition of professors who don't just teach theory; they've lived it. They're approachable mentors with high expectations, but they also understand that learning means preparing your for actual careers and developing relationships to last a lifetime.

12:1*

campus-wide student-to-faculty ratio ensures individual attention

93%

of students receive financial aid

500+

biochemistry internships available nationwide

RECENT GRADS WERE HIRED AT COMPANIES LIKE THESE:



EQUIPMENT AND INSTRUMENTATION

- Microplate reader (UV/Vis/Fluorescence/Luminescence)
- Ultraviolet/visible (UV/Vis) spectrophotometer
- Fluorometer (fluorescence spectrometer)
- High-performance liquid chromatograph (HPLC)
- Gas chromatograph (GC)
- Gas chromatograph mass-spectrometer (GCMS)
- Differential scanning calorimeter (DSC)
- Fourier transform infrared (FTIR) spectrometer
- 400 and 60 MHz nuclear magnetic resonance (NMR) spectrometers
- Atomic absorption (AA) spectrometer

SAMPLE MAJOR CURRICULUM

Biochemistry Required Courses

General Chemistry I with Lab	4 hrs	Advanced Topics in Biochemistry.	2 hrs
General Chemistry II with Lab	4 hrs	Biology I with Lab.	4 hrs
Organic Chemistry I with Lab.	4 hrs	Cell Biology	3 hrs
Organic Chemistry II with Lab.	4 hrs	Genetics with Lab.	4 hrs
Chemical Analysis with Lab	4 hrs	Calculus I	4 hrs
Biochemistry.	4 hrs	Physics I with Lab	4 hrs
Biochemistry Laboratory Techniques	2 hrs	Physics II with Lab	4 hrs

Electives (Select a minimum of three courses)

Immunology	3 hrs	Advanced Techniques in Cellular and Molecular Biology . .	4 hrs
Human Anatomy & Physiology II with Lab	4 hrs	Cancer Biology.	3 hrs
Introduction to Bioinformatics	3 hrs	DNA Sequencing and Analysis.	3 hrs
Epidemiology and Biostatistics	3 hrs	Physical Chemistry I	4 hrs
Basic Environmental Toxicology.	3 hrs	Physical Chemistry II.	4 hrs
Microbiology with Lab	4 hrs	Calculus II	4 hrs
Microbial Pathogenesis with Lab	4 hrs	Biophysics	3 hrs

Please Note: Majority of the pre-med requirements can be fulfilled with careful selection of electives.

Electives (Select a Chemistry or Biology capstone)

Chemistry Capstone		Biology Capstone	
Chemistry Seminar	2 hrs	Biology Seminar	1 hr
Introduction to Chemical Research	3 hrs	Research Methods	3 hrs
Supervised Research	3 hrs	Independent Research	3 hrs
		Senior Biology Seminar	1 hr

Biochemistry/Pre-Medicine Encouraged Courses

Human Anatomy and Physiology I with Lab	4 hrs	Human Anatomy & Physiology I with Lab	4 hrs
Human Anatomy and Physiology II with Lab	4 hrs	Human Anatomy & Physiology II with Lab	
Biodiversity, Form and Function with Lab	4 hrs	(major elective)	4 hrs
Basic Microbiology with Lab (major elective).	4 hrs	General Psychology (CORE+ elective).	3 hrs
Immunology (major elective)	3 hrs	Introduction to Sociology.	3 hrs

Disclaimer: The plan outlined above is a suggested course sequence. It may be adjusted based on prior college credit or transfer coursework earned before enrollment.

BIOCHEMISTRY ORGANIZATIONS

- Student Section of the American Chemical Society
- Chemistry Club



"What attracted ME to UF?"

- Strong ties to Christianity
- Small, personal classes
- Devotion to growth
- Leadership development
- Emphasis on gaining a successful career"

– Ethan Lantz

Choose Ohio First This degree program is eligible for Choose Ohio First scholarship funding.



OFFICE OF ADMISSIONS
419-434-4732 | 1-800-548-0932 | admissions@findlay.edu



APPLY